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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/845,717	05/02/2001	Soren Nielsen	NIELSEN=3B	3818	
BROWDY AND NEIMARK, P.L.L.C. 624 Ninth Street, N.W. Washington, DC 20001		EXAMINER			
			DEBERRY, REGINA M		
			ART UNIT	PAPER NUMBER	
			1647		
					
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MO	NTHS	02/01/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
_	09/845,717	NIELSEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Regina M. DeBerry	1647			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. C (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>15 November 2006</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1,2,5,20,23,25-30,35,39-42 and 44-53 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,5,23,26-30,39-42,46,50 and 53 is/ 7) ☐ Claim(s) 20,25,35,44,45,47-49,51 and 52 is/are 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration. are rejected. e objected to.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the objected to examine the correction of the correction of the objected to by the Examiner and the correction of the objected to by the Examiner and the correction of the objected to by the Examiner and the correction of the objected to by the Examiner and the correction of the objected to by the Examiner and the correction of the objected to by the Examiner and the correction of the objected to be corrected as a correction of the objected to be corrected as a correction of the objected to be corrected as a correction of the objected to be corrected as a correction of the objected as a correction of the o	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P. 6) Other:	atent Application			

Art Unit: 1647

Status of Application, Amendments and/or Claims

Applicant's arguments (15 November 2006) have been entered in full. Claims 1,

2, 5, 20, 23, 25-30, 35, 39-42, 44-53 are pending and under examination.

The text of those sections of Title 35, U.S. Code not included in this action can

be found in a prior Office action.

Claim Rejections - 35 USC § 103(a)

Claims 1, 2, 5, 23, 39 and 53 remain rejected under 35 U.S.C. 103(a) as being

unpatentable over Akamatsu et al., US Patent No. 4,745,099 in view of Anagnostou et

al., US Patent 5,922,674. The basis for this rejection is set forth at pages 3-5 of the

previous Office Action (31 May 2006).

Applicant reiterates the Examiner's previous Office Action. Applicant states that

they agree with the Examiner that Anagnostou et al. describe the use of EPO to treat

endothelial injury. Applicant argues that in the reference, it is described that EPO

effectively can prevent and/or repair endothelial damage caused by e.g. inflammation.

Applicant asserts that lungs are lined with epithelial cells and not endothelial cells.

Applicant contends that epithelial and endothelial cells are different cell types which

possess different functions. Applicant submits definitions of endothelium and epithelium

for the Wikipedia encyclopedia. Applicant states, "in general, endothelium cells in

contrast to alveolar epithelium cells do not have marked transepithelial transport

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capacities for solutes". Applicant maintains that the umbilical vein endothelium cells employed by Anagnostou et al. are not representative of lung epithelial cells.

Applicant's arguments have been fully considered but are not deemed persuasive. Applicant does not provide any evidence to support the assertion, "in general, endothelium cells in contrast to alveolar epithelium cells, do not have marked transepithelial transport capacities for solutes". Furthermore, the Examiner is unclear the point Applicant is trying to make with this statement. It is known to those skilled in the art that **lungs comprise both epithelial and endothelial cells**. Smith et al. (Chest, Vol 114/1, pages 337-340 July 1998) teach extensive involvement of lung microvascular endothelial cells by the cytomegalovirus (CMV) from an autopsy of an AIDS patient. In each of the histologic sections of the lung, numerous enlarged, CMV-infected endothelial cells were present within the alveolar septal capillaries (abstract, page 337, Pathologic Findings, 1st paragraph). Pettersson et al. (Infection and Immunity, Vol. 73/11, pages 7736-7746 Nov. 2005) teach an animal model to study Plasmodium falciparum malaria. Plasmodium falciparum infected and non-infected human RBC were radiolabeled and injected into the tail vein of rats. The infected RBC accumulated in the lungs of the rats (page 7738). Pettersson et al. examined histological sections of rat lungs. Pettersson et al. teach infected RBC in the vicinity of the endothelium and some adhering to endothelial cell from the lung sample (page 7740, last paragraph-page 7741, 2nd paragraph; Figures 5 and 6B).

The scientific reasoning and evidence as a whole indicates that the rejection should be maintained.

Claim Rejections - 35 USC § 103(a)

Claims 26-30, 40-42, 46 and 50 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Akamatsu *et al.*, US Patent No. 4,745,099 and Anagnostou *et al.*, US Patent 5,922,674 as applied to claims 1 and 39 above, and further in view of Delgado Hernandez *et al.*, Neuroimmunomodulation 6:187-192, 1999. The basis for this rejection is set forth at pages 5-8 of the previous Office Action (31 May 2006).

Applicant incorporates their response to the rejection under 35 USC 103(a) as being unpatentable over Akamatsu *et al.*, US Patent No. 4,745,099 in view of Anagnostou *et al.*, US Patent 5,922,674, in response to the instant rejection under 35 USC 103(a). Applicants arguments have been fully considered but are not found to be persuasive for the reasons discussed above in the maintained rejection in 35 USC 103(a) above and reasons of record.

Claim Objections

Claims 20, 25, 35, 44, 45, 47-49, 51 and 52 remain objected to because they depend from a rejected claim. The basis for this rejection is set forth at page 8 of the previous Office Action (31 May 2006).

Conclusion

Claims 1, 2, 5, 23, 26-30, 39-42, 46, 50 and 53 are rejected.

Claims 20, 25, 35, 44, 45, 47-49, 51 and 52 are objected to.

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No claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina M. DeBerry whose telephone number is (571) 272-0882. The examiner can normally be reached on 9:00 a.m.-6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda G. Brumback can be reached on (571) 272-0961. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RMD 1/25/07 MARIANNE P. ALLEN
PRIMARY EXAMINER

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